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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/559,886	04/26/2000	Wolfgang Huber	P00, 0558	1777

30596 7590 09/03/2002

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EXAMINER

BOSWELL, ALAN M

ART UNIT	PAPER NUMBER
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3729

DATE MAILED: 09/03/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/559,886

Applicant(s)

HUBER ET AL.

Examiner

Alan M Boswell

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 5/31/02.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 10-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 10-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 April 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6,8,9.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because it does not describe an automatic component mounting unit sufficiently. Correction is required. See MPEP § 608.01(b).
2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the fixed reference mark and the plurality of mounting members with a respective data storage device and all pertinent elements as recited in the claims must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 10,12-24 and 26-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over No. 6079098 to Soellner in view of US Patent No. 5692292 to Asai.

Regarding claims 10, 15 and 22, Soellner discloses a plurality of mounting members disposed for mounting the electrical component 1, each of the mounting members 6 and 8, a fixed reference mark (see col. 2, lines 35-36) and a control device 14 disposed for controlling the automatic component-mounting unit via a bus 13 (see col. 2, lines 56-67).

Soellner fails to teach a respective data storage device wherein each of the data storage devices stores; each of the data storage devices transmitting the amount of mounting process data is utilized so as to adapt each of the mounting members.

Asai teaches respective data storage device 264 wherein each of the data storage devices stores, for each of the respective mounting members an amount of mounting process data related to a reference mark and each of the data storage devices 264 (see col. 18, lines 63-67) transmitting the amount of mounting process data is utilized so as to adapt each of the mounting members 96 for optimal use during the mounting of the electrical component (see cols. 22 and 24, lines 35-55 and 16-30 respectively) for the purpose of fabricating a system independent of each other to increase manufacturing PCB with electronic component therein.

It would have been obvious to one of ordinary skill in the art, at the time of invention, to modify the invention of Soellner with the data storage device for each of the respective mounting members, in light of the teaching of Asai, for the purpose of

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fabricating a system independent of each other to increase manufacturing PCB with electronic component therein.

Regarding claims 12 and 23, Soellner teaches a head member 10.

Regarding claim 13, Soellner fails to teach the mounting members include a mounting feeding member.

Asai teaches a mounting members include a mounting feeding member 190 and 340 (see col. 26, lines 256-56) for the purpose of the purpose of fabricating a system independent of each other to increase manufacturing PCB with electronic component therein.

However, it would have been obvious to one of ordinary skill in the art, at the time of invention, to provide the invention of Soellner with a mounting feeding member in light of the teaching of Asai order to fabricate a system independent of each other to increase manufacturing PCB with electronic component therein.

Regarding claim 14, Soellner teaches a mounting sensor member 9.

Regarding claims 16,19 and 29, Soellner teaches positioning data measured relative to a fixed reference mark (see col. 2, lines 56-67).

Regarding claim 21, Soellner teaches the control device receives the amount of mounting process via a bus 13 to configure movement and positioning of the plurality of mounting members (see col. 2, lines 34-67).

Regarding claim 24, Soellner fails to teach a mounting head member includes a storage device for storing the mounting process data.

Asai discloses that the mounting head member 62 includes a storage device 264 is part of 62 (see Figs 5 and 9) for the purpose of increased mounting speed.

It would have been obvious to one of ordinary skill in the art, at the time of invention, to modify the invention of Soellner with a head member includes a storage device, in light of the teaching of Asai, for the purpose increasing the mounting speed.

Regarding claims 17, 18, 20, and 30, Soellner teaches the control device receives the amount of mounting process via a bus 13 to configure movement and positioning of the plurality of mounting members (see col. 2, lines 34-67).

Regarding claims 26-28, Soellner teaches the above limitation but fails to teach the mounting process data is transferred from a data storage medium, insertable into the control device and mounting head member.

Asai teaches the mounting process data is transferred from a data storage medium, insertable into the control device and mounting head member (see col. 22, lines 48-55) for the purpose of sharing data information with computers or component vendors to increase mounting speed.

It would have been obvious to one of ordinary skill in the art, at the time of invention, to modify the invention of Soellner with a mounting process data, which is transferred from a data storage medium, insertable into the control device and mounting head member, in light of the teaching of Asai, for the purpose of sharing data information with computers or component vendors to increase mounting speed.

Regarding claim 31, Soellner teaches the positional data measured relative to a fixed reference mark (see col. 2, lines 56-67).

Regarding claim 32, Soellner teaches the control device receives the amount of mounting process to configure movement and positioning of the plurality of mounting members (see col. 2, lines 34-67).

6. Claim 11 rejected under 35 U.S.C. 103(a) as being unpatentable over Soellner in view of Asai as applied to claim 10 above, and further in view of US Patent No. 5,588,195 to Asai.

Soellner and Asai fail to teach a data storage devices which includes a transponder unit for communicating with the control device in a contactless manner, and the transponder is directly attached to the mounting member.

Asai `195 teaches data storage devices which includes a transponder unit 316 for communicating with the control device in a contactless manner, and the transponder is directly attached to the mounting member (see col. 26, lines 8-19) for the purpose of improving durability, which produces longer life expectancy for the system.

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify the invention of Soellner et al with transponder unit for communicating with the control device in a contactless manner, in light of the teaching of Asai `195, in order to improve durability, which produces longer life expectancy for the system.

7. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Soellner in view of Asai as applied to claim 24 above, and further in view of Asai `195.

Soellner and Asai fail to teach a data storage devices which includes a

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transponder unit for communicating with the control device in a contactless manner, and the transponder is directly attached to the mounting member.

Asai' 195 teaches data storage devices which includes a transponder unit 316 for communicating with the control device in a contactless manner, and the transponder is directly attached to the mounting member (see col. 26, lines 8-19) for the purpose of improving durability, which produces longer life expectancy for the system.

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to modify the invention of Soellner et al with transponder unit for communicating with the control device in a contactless manner, in light of the teaching of Asai' 195, in order to improve durability, which produces longer life expectancy for the system.

Response to Arguments

8. Applicant's arguments with respect to claims 10-32 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Telephone inquiries regarding the status of applications or other general questions, by persons entitled to the information, should be directed to the group clerical personnel. In as much as the official records and applications are located in the clerical section of the examining groups, the clerical personnel can readily provide status information. M.P.E.P. 203.08. The Group clerical receptionist number is (703) 308-1148.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan M Boswell whose telephone number is (703) 305-0308. The examiner can normally be reached on M-F(8:00-5:30) Second Monday Off.

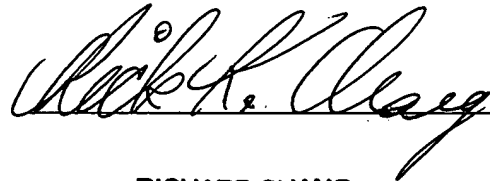
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (703) 308-1789. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3579 for regular communications and (703) 305-3579 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-2572.

AB

8/14/02

A handwritten signature in black ink, appearing to read "Richard Chang", written over a horizontal line.

RICHARD CHANG
PRIMARY EXAMINER